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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/005,880	11/02/2001	Takayuki Usami	IIDAP19.001C1	7974
38834	7590 11/17/2004		EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700			IP, SIK	CYIN
			ART UNIT	PAPER NUMBER
WASHINGTO	ON, DC 20036		1742	
			DATE MAILED: 11/17/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/005,880	USAMI ET AL.
Office Action Summary	Examiner	Art Unit
·	Sikyin Ip	1742
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUNI Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm If the period for reply specified above is less than thirty (3 If NO period for reply is specified above, the maximum states that the period for reply any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, however, may a nunication. ii) days, a reply within the statutory minimum of thir attutory period will apply and will expire SIX (6) MON will. by statute, cause the application to become All.	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication.
Status		
1) Responsive to communication(s) file	ed on 01 September 2004.	
. —	2b) ☐ This action is non-final.	
3) Since this application is in condition		ters, prosecution as to the merits is
closed in accordance with the practic	ce under <i>Ex parte Quayle</i> , 1935 C.D	0. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) <u>1-14</u> is/are pending in the a	pplication.	
4a) Of the above claim(s) 3-14 is/are		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restrict	tion and/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the	e Examiner	
10) The drawing(s) filed on is/are:		by the Everniner
Applicant may not request that any objec	tion to the drawing(s) be held in abovan	20 Son 27 CER 1 95(a)
Replacement drawing sheet(s) including		
11) The oath or declaration is objected to	by the Examiner. Note the attached	Office Action or form PTO-152
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim fo	or foreign priority under 25 H.C.C.S	440(-) (-) (0)
a) ☐ All b) ☐ Some * c) ☐ None of:	or loreign priority under 35 U.S.C. §	119(a)-(d) or (f).
1. ☐ Certified copies of the priority d	locuments have been received	
2. Certified copies of the priority d		nationalism Als
 Copies of the certified copies o application from the Internation 	al Purson (DCT Dule 17.0(-))	received in this National Stage
* See the attached detailed Office action		raceivad
dottor	inst of the certified copies flot f	eceiveu.
AMaahaa ayatta		·
Attachment(s)		
1) X Notice of References Cited (PTO-892) 2) X Notice of Draftsperson's Patent Drawing Review (PT	4) L Interview Su	ımmary (PTO-413) /Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or P Paper No(s)/Mail Date <u>2/10/04;9/1/04</u> .	TO/SB/08) 5) Notice of Inf 6) Other:	formal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 and 2 are rejected under 35 U.S.C. § 103 as being unpatentable over EP 0949343(PTO-1449, page 3, [0011] to [0012]), JP 11222641 (PTO-1449, abstract), or JP 11043731 (PTO-1449, abstract).

Claim 1 is rejected under 35 U.S.C. § 103 as being unpatentable over 06041660 (PTO-1449, abstract).

The cited reference(s) disclose(s) the features including the claimed Cu based alloy composition and grain diameter. The difference between the reference(s) and the claims are as follows: Cited references do not disclose the claimed a/b grain ratio 0.8 to less than 1.5. But, the cited references report grain size in diameters overlap those as claimed so that it is evinced that the grains of prior art alloys are substantially round which has a/b ratio about 1. Thus, said grain ratio has been met. Therefore, it would

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have been obvious to one of ordinary skill in the art to select any portion of range, including the claimed range, from the broader range disclosed in a prior art reference because the prior art reference finds that the prior art composition in the entire disclosed range has a suitable utility. Also see MPEP § 2131.03 and § 2123.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over references as applied to claims above, and further in view of USP 4425168 to Goldstein.

The above cited references disclose the features substantially as claimed as set forth in the rejection above except for the grain a/b ratio. However, Goldstein in col. 2, line 52 to col. 3, line 15 discloses process, Cu alloy composition, and grain size similar to said above cited references which would have an equiaxed grain (a/b is about 1) in the processed Cu alloys in the same field of endeavor or the analogous metallurgical art. Therefore, it would have been obvious to one having ordinary skill in the art of the cited references at the time the invention was made to recognize the processed Cu alloys of above cited references contain equiaxed grains or provide above cited references with processing steps as taught by Goldstein to obtain equiaxed grains in order to improve/provide strength and formability of Cu alloys (See col. 1, lines 1-14 and col. 2, line 52 to col. 3, line 15). In re Venner, 120 USPQ 193 (CCPA 1958), In re LaVerne, et al., 108 USPQ 335, and In re Aller, et al., 105 USPQ 233.

Response to Arguments

Applicant's arguments filed September 1, 2004 have been fully considered but they are not persuasive.

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Applicants' argument as set forth in pages 8-9 of instant remarks is noted. But, as is evinced by Goldstein that processed Cu alloy would contain equiaxed grains and equiaxed grains are known to be beneficial for Cu alloy strength and formability (see col. 1, lines 1-14 and col. 2, line 52 to col. 3, line 15).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

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All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121.

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (571) 272-1241. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (571)-272-1244.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

S. lp November 14, 2004